

Arithmetic Practice Test: 1

For Grade-8, 9 and 10 students

Time: 30 minutes

1. A T-shirt was sold at a loss of 10%. If the same T-shirt would have been sold at a price which was \$27 more, the net profit would have been $12\frac{1}{2}\%$. What was the cost price of the T-shirt?
2. A fruit seller suffered a loss of 4% when he sold oranges at the rate of 12 oranges per \$1. If he wants to make 44% profit, how many oranges he would need to sell for \$1?
3. A businessman bought two cars each at a price of \$6450. Later, he sold the first car at a profit of 10% and the second car at a loss of 6%. Overall, how much % profit or % loss he made?
4. A shopkeeper makes a profit of 10% if a pen is sold at \$13.75. What is the cost price of the pen?
5. The price written on a book is \$44. The seller gives a discount of $7\frac{1}{2}\%$ on a particular day and makes a profit of 10%. At what price the seller bought the book?
6. A businessman made a profit of 25% when he sold a product at \$240. What is the percentage profit if he would have sold the same product at \$216?
7. There are two types of teas available at a shop. The first variety of tea costs \$9.60 per kg. The second variety of tea costs \$13.44 per kg. The shopkeeper mixes these two types of teas in a certain proportion. He later sells this mixture at the rate of \$13.20 per kg and makes a profit of 10%. Find the ratio at which these two types of teas are mixed.
8. A shopkeeper bought two toy cars at a total price of \$370. He sold both of them at a total price of \$412. He made 20% profit from the first toy and 15% loss of the second toy. What was the cost price of the first toy car?
9. A coffee producer makes a profit of 25% of the production cost of coffee. The wholesale merchant makes a profit of 40% and the retail businessman makes a profit

of 75% when they sell the same coffee powder. If the retail sale price of the coffee is \$25, what is the production cost of the same coffee?

10. A shopkeeper bought 76 copies of a new book. He sold 20 books at a profit of 15%, 40 books at a profit of 19% and the remaining 16 books at a profit of 25%. He made a total profit of \$657. What was the cost price of each book?

ANSWERS

1. \$120
2. 8
3. 2% profit
4. \$12.50
5. \$37
6. $12\frac{1}{2}\%$
7. 3 : 5
8. $\$278\frac{4}{7}$
9. $\$8\frac{8}{49}$
10. \$45